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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/613,803	07/03/2003	Takae Ito	2803.68136	7339	
7590 04/19/2005			EXAM	EXAMINER	
Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD.			VU, F	VU, PHU	
Suite 2500			ART UNIT	PAPER NUMBER	
300 South Wacker Dr. Chicago, IL 60606			2871		
			DATE MAILED: 04/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Amilianda				
		Applicant(s)				
Office Action Summary	10/613,803 Examiner	ITO, TAKAE Art Unit				
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The MAILING DATE of this communication and	Phu Vu	2871				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period when the torm of the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Ja	nuary 2005.					
	action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) /- 3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>03 July 2003</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to t drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:					

DETAILED ACTION

- 1. It is hereby acknowledged that the following papers have been received and placed of record in the file: Remarks (filed 1/18/2005)
- 2. Claims 1-3 are presented for examination.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in the prior office action.

Response to Arguments

Applicant's arguments, see Remarks, filed 1/18/2005, with respect to the rejection(s)of claim(s) 1-3 under 35 U.S.C. 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Murakami et. al. US Patent No. 6525718 and Sato et. al US Patent No. 6,345,887.

Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Murakami et. al US Patent No. 6525718 and further in view of Sato et. al. US Patent No. 6345887.

Murakami teaches a liquid crystal display device comprising: a liquid crystal panel displaying an image (fig.1B element 9); and at least one flexible printed circuit board (fig. 1B element 4) arranged on one side of the liquid crystal panel and having

Art Unit: 2871

driver ICs (fig. 1B element 7) mounted thereon and the driver ICs are cascaded with respect to the input signals. Murakami fails to teach two driver ICs that are mounted on each flexible printed circuit board. Sato teaches two driver ICs (fig. 2 element 15) mounted on a single printed circuit board (see fig. 2 element 12). Sato's driver ICs are not cascaded however the primary reference teaches the driver ICs are cascaded with the respect to the inputs as the inputs 16, 17 and 18 of figure 1B are cascaded. Multiple ICs on a single circuit board can be done for a number of reasons such as allowing for faster production as multiple ICs can be mounted at one time, or reduce the amount of cutting required on the PCB, or reduce the total amount area of the PCB needed.

Therefore, at the time of the invention, it would have been obvious to include two driver ICs on a single PCB to increase production speed or reduce the amount of materials needed.

Regarding claim 2, the primary reference teaches a printed circuit board arranged along one side of the LCD panel, at least one flexible printed circuit board comprising a plurality of flexible printed circuit boards which connect the liquid crystal panel to the printed circuit board.

Regarding claim 3, the primary reference each of the flexible printed circuit boards has input terminals which has same number of that one IC. Also even when combined with Sato as in the rejection of claim 1, the references would still have the same number as of one driver IC as each of the driver ICs along one side of the panel is cascaded.

Art Unit: 2871

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu Vu whose telephone number is (571)-272-1562.

The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phu Vu Examiner AU 2871

DUNGT. NGUYEN PRIMARY EXAMINER